

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS FO Box 1450 Alexandra, Virginia 22313-1450 www.webje.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,283	03/31/2006	Keisuke Furuichi	288931US0PCT	7158
22850 OBLON SPIV	7590 04/14/200 'AK, MCCLELLAND	EXAM	EXAMINER	
1940 DUKE STREET ALEXANDRIA, VA 22314			LILLING, HERBERT J	
			ART UNIT	PAPER NUMBER
			1657	
			NOTIFICATION DATE	DELIVERY MODE
			04/14/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Office Action Summary

Application No.	Applicant(s)	Applicant(s)	
10/574,283	FURUICHI ET AL.		
Examiner	Art Unit		
HERBERT J. LILLING	1657		

The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Edensions of time may be available under the provisions of 37 CPR 1 1360, in no event, however, may a reply be timely filed after SIX (6) MONTHS from the mained date of this communication. If NO period for reply is specified down, the maximum statutory period with apply and will expire SIX (6) MONTHS from the making date of this communication. If NO period for reply is specified down, the maximum statutory period with apply and will expire SIX (6) MONTHS from the making date of this communication will reply and will expire SIX (6) MONTHS from the making date of this communication will be supported by the Communication of the supported by the supported by the Communication of the supported by the S					
Status					
Responsive to communication(s) filed on					
2a) This action is FINAL . 2b) ☐ This action is	s non-final				
3) Since this application is in condition for allowance exce					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-22 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1-22 are subject to restriction and/or election r	requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 31 March 2006 is/are: a)⊠ acc	epted or b) objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s	s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is requ	uired if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.					
Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No.					
3. Copies of the certified copies of the priority documents have been received in this National Stage 3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/S5/08)	Paper No(s)/Mail Date				

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Paper No(s)/Mail Date _____.

6) Other: _____.

Page 2

Application/Control Number: 10/574,283

Art Unit: 1657

 Claims 1-22 are pending in this application which is a 371 of pct/jp04/14394 filed 09/30/2004 which claims benefit to JAPAN 2003-343211 FILED 10/01/2003

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I claim(s) 1-3, drawn to a process for producing 1,4-dihydroxy-2-naphtoic acid comprising initiating the culture of 1,4-dihydroxy-2-naphthoic acid producing bacteria belonging to propionic acid bacteria under anaerobic conditions and culturing the bacteria under aeration into the medium when the concentration of a carbon source in the medium is 3.5% by mass or less.

Group II, claims 4-6, drawn to a process for producing 1,4-dihydroxy-2-naphtoic acid, comprising culturing 1,4-dihydroxy-2-naphthoic acid producing bacteria belonging to propionic acid bacteria under anaerobic conditions, adding a carbon source to the obtained culture and preserving the culture at 3 to 20.degree. C. under weak alkaline conditions.

Group III, claims 7-9, drawn to a process for producing 1,4-dihydroxy-2-naphtoic acid, comprising initiating the culture of 1,4-dihydroxy-2-naphtoic acid producing bacteria belonging to propionic acid bacteria under anaerobic conditions, culturing the bacteria under aeration into a medium when the concentration of a carbon source in the medium is 3.5% by mass or less, adding the carbon source to the obtained culture and preserving the culture at 3 to 20.degree. C. under weak alkaline conditions

Claims 9-11 will be examined with one of the above elected inventions

Group IV, claims drawn to a composition comprising 1,4-dihydroxy-2-naphthoic acid obtained by the process according to any one of claims 1 to 11.

Art Unit: 1657

Claims 13-16 will be examined with Group.

Claims 17-20 are drawn to non-statutory subject matter and cannot be classified.

Group V, claim 21, drawn to a method a method for treating abdominal discomfort, characterized by comprising administering an effective amount of the composition

according to claim 12.

Group VI, claim 22, drawn to a method for treating metabolic osteopathy, characterized

by comprising administering an effective amount of the composition according to claim

12.

3. Inventions V and VI or I and II are directed to related processes. The

related inventions are distinct if: (1) the inventions as claimed are either not capable of

use together or can have a materially different design, mode of operation, function, or

effect: (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the

inventions as claimed are not obvious variants. See MPEP § 806.05(i).

In the instant case, the inventions V and VI as claimed are drawn to different

methods of treating.

In the instant case, the inventions I and II as claimed are drawn to different

process conditions.

Furthermore, the inventions as claimed do not encompass overlapping subject

matter and there is nothing of record to show them to be obvious variants.

Invention I does not require the specifics of Inventions II or III.

Invention II does not require the specifics of Invention I or III.

Application/Control Number: 10/574,283 Page 4

Art Unit: 1657

Inventions I, II or III and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product composition can be made by another and materially different process as evidenced by the Search Report for the PCT.

Inventions IV and V-VI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the product as claimed can be used in a materially different process of using that product as evidenced by the PCT Search Report.

- 4. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above <u>and</u> there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:
 - (a) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;

Art Unit: 1657

(b) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries):

- (c) the prior art applicable to one invention would not likely be applicable to another invention;
- (d) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Evidence that the above restriction requirement is proper that above inventions or groups of inventions are <u>not so linked as to form a single general inventive concept under PCT Rule 13.1</u> in view of the numerous anticipatory art on the record in the PCT Search Report.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after

Application/Control Number: 10/574,283 Page 6

Art Unit: 1657

the election, applicant must indicate which of these claims are readable on the elected invention

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

 This application contains claims directed to the following patentably distinct species

Whereby the composition is a method that the:

- a) Food or beverages improves abdominal discomfort
- b) Food or beverages for metabolic osteopathy which

ba prevents metabolic osteopathy,

or

bb. treats metabolic osteopathy.

. The species are independent or distinct because claims to the different species recite the mutually exclusive characteristics of such species. In addition, these species are not obvious variants of each other based on the current record.

Art Unit: 1657

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 12-16 are generic.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are

Art Unit: 1657

added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 8. In accordance with this Tech Center Policy based on above restriction containing product claims and process claims, this Examiner will rejoin any non-elected process claims upon the election of a product claim which is subsequently is found allowable in view of the following guidelines:

Page 9

Application/Control Number: 10/574,283

Art Unit: 1657

F.P.: Ochiai/Brouwer Rejoinder form paragraph

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product daim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

- 9. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HERBERT J. LILLING whose telephone number is 571-272-0918. The examiner can normally be reached on WORK AT HOME MAXIFLEX.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JON WEBER can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 10

Application/Control Number: 10/574,283

Art Unit: 1657

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.
H.J.Lilling: HJL

(571) 272-0918 Art Unit <u>1657</u> April 09, 2008

/HERBERT J LILLING/ Primary Examiner, Art Unit 1657